Index of Claims

| Application No. | Applicant(s) |  |
|-----------------|--------------|--|
| 10/632,606      | SATO, SHO    |  |
| Examiner        | Art Unit     |  |
| Judy M. Reddick | 1713         |  |

| √ | Rejected |
|---|----------|
| = | Allowed  |

| [- | (Through numeral)<br>Cancelled |
|----|--------------------------------|
| ÷  | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| 1 | Interference |

| Α | Appeal   |
|---|----------|
| 0 | Objected |

|  | laim     | Date     |          |          |              |  |          |           | <b></b>  | Claim Date Claim |      |          |          |          |              |          |          | laim    | Date     |  |          |   |                   |            |           |          |              |              |          |              |                 |   |
|--|----------|----------|----------|----------|--------------|--|----------|-----------|--|------------------|------|----------|----------|----------|--------------|----------|----------|---------|----------|--|----------|---|-------------------|------------|-----------|----------|--------------|--------------|----------|--------------|-----------------|---|
|  | <u></u>  | 1.       |          |          | Ι            |  |          |           |  |                  |      |          | -        |          |              | 7        |          | Ţ       |          | T  |          |   |                   | T          |           |          |              |              | Ī        | Ť            | П               | _ |
| Final  | Original | 8/17/04  | 1        |          |              |  |          |           |  |                  |      | Final    | Original |          |              |          | -        | - 1     |          |  | ĺ        |   | Final             | Original   |           |          |              |              |          | 1            |                 |   |
| i i i  | ا ق      | 8/1      |          |          |              |  |          | ĺ         |  |                  |      | 证        | ž        |          |              | ĺ        |          | -       |          | 1  |          |   | ΙĒ                | E          | il        | -        |              |              |          |              |                 |   |
| <u> </u>                                     |          |          | _        | _        | ļ            | ↓  | L        |           | $\Box$   |                  |      |          |          | L        |              |          | _        |         | $\perp$  |  |          |   |                   | J          |           |          |              |              |          | L            |                 |   |
| -  | 1        | 1        | igspace  |          | L            | ╄  | $\vdash$ | L_        | Ш  |                  |      |          | 51       | Ш        |              | _        | _        | _       | $\perp$  | $\perp$  | _        |   |                   | 101        |           |          |              |              |          |              |                 | _ |
|  | 2        | -        | $\vdash$ |          | L            | -  | L        | <u> </u>  | Ш  |                  |      |          | 52       |          |              | _        | 4        | _       | 4        |  | _        |   |                   | 102        |           |          |              |              |          |              |                 | _ |
| -  | 3        | 1        | -        |          | <u> </u>     | <b>├</b>   |          |           | Н  |                  |      |          | 53       | Ш        |              | _        | 4        | 4       | _        |  | L        |   |                   | 103        |           | $\perp$  |              |              | L        |              |                 |   |
| -  | 4        | 1        | H        |          | _            | <b>├</b>   | <b>!</b> |           | $\vdash$   | _                |      |          | 54       | Ш        |              | 4        | $\dashv$ | 4       | 4        | - -  | <u> </u> |   |                   | 104        |           | _        |              |              | L        |              |                 |   |
|  | 5<br>6   | 1        | H        |          | _            | -  |          |           | $\vdash$   | _                |      |          | 55       | _        |              | _        | -        | $\perp$ | $\perp$  |  | <u> </u> |   |                   | 105        | Ш         | _        |              | _            | _        |              | Ш               | _ |
| $\vdash$                                     | 7        | 1        | Н        |          | _            | ├—   | Н        | _         |  | $\dashv$         |      |          | 56       |          |              | 4        | _        | -+      | _        | +-   |          |   |                   | 106        | Ш         |          |              |              | <u> </u> | _            | $\sqcup$        | _ |
| <u> </u>                                     | 8        | +        |          |          | _            | $\vdash$   | -        | _         | Н  | $\dashv$         |      |          | 57<br>58 | $\vdash$ | -            |          | +        | +       |          |  |          |   |                   | 107        |           | _        | _            | <u> </u>     | <u> </u> | Щ            | $\sqcup$        | _ |
|  | 9        | ╁        | $\vdash$ |          |              | ╁  | Н        |           | <del>                                     </del> | $\dashv$         |      |          | 59       | $\vdash$ | -            | $\dashv$ |          | +       |          |  | <u> </u> |   | ļ                 | 108        | $\sqcup$  |          |              |              | <b> </b> | Ш            | $\vdash$        | _ |
| -  | 10       | +        | Н        | -        | -            | ┢  | Н        |           | $\vdash$   | {                |      |          | 60       | $\vdash$ | -            | $\dashv$ | +        |         | +        | -  | H        |   | <u> </u>          | 109        | -         | -        | _            | <u> </u>     | H        | $\vdash$     | $\vdash$        |   |
| $\vdash$                                     | 11       | $\vdash$ | $\vdash$ | $\dashv$ |              | <del>                                     </del> | Н        |           |  | $\dashv$         |      |          | 61       |          |              | $\dashv$ | -+       | +       | -        |  | <u> </u> |   |                   | 110        | $\dashv$  | $\dashv$ |              | _            | -        | Н            | $\vdash$        | _ |
|  | 12       | ┢        | H        | $\neg$   | _            | 一  | $\vdash$ | _         | H  | $\dashv$         |      |          | 62       | $\dashv$ | $\dashv$     | +        | +        | +       | +        | +-   |          |   |                   | 111<br>112 | $\vdash$  | -+       | -            |              | H        | $\vdash$     | $\vdash \vdash$ | _ |
|  | 13       | ┢        | H        | $\neg$   | _            | $\vdash$   | H        | $\neg$    | $\dashv$   | $\dashv$         |      |          | 63       |          | 一            | +        | +        | +       | +        | +  |          |   |                   | 113        |           | $\dashv$ | {            |              | $\vdash$ | $\vdash$     | -               | _ |
|  | 14       | $\vdash$ |          | $\neg$   | _            |  | $\vdash$ | _         |  | -                | ŀ    |          | 64       | $\vdash$ | +            | +        | $\dashv$ | +       |          | +  | Н        |   |                   | 114        | $\dashv$  | -        |              |              | $\vdash$ |              | $\vdash$        | _ |
| $\vdash$                                     | 15       | 1        |          |          |              |  |          |           | $\dashv$   | _                |      |          | 65       | $\vdash$ | 十            | -        | +        | -       |          | +  | Н        |   |                   | 115        | -+        | $\dashv$ | $\dashv$     |              |          |              | $\vdash$        | _ |
|  | 16       | 1        | $\Box$   | $\neg$   | _            |  | $\vdash$ | $\exists$ | $\exists$  | $\neg$           |      | -+       | 66       | $\dashv$ | $\dashv$     | -        | +        | +       | -        | +  | $\dashv$ |   |                   | 116        | -+        | $\dashv$ | $\dashv$     | _            | Н        | $\vdash$     | +               | _ |
|  | 17       |          |          | $\neg$   |              |  | $\vdash$ |           |  | $\dashv$         | 1    |          | 67       | $\vdash$ | +            | +        | +        | +       | +        | +-1  |          |   |                   | 117        | $\dashv$  | -        | $\dashv$     |              | H        | $\dashv$     | +               | _ |
|  | 18       | T        | $\Box$   |          |              |  |          | $\exists$ | _  | 7                |      |          | 68       | ᅥ        | +            | +        | ╁        |         | ╅╴       | +  |          |   |                   | 118        | $\dashv$  | $\dashv$ | -            | -            | Н        | $\vdash$     | $\dashv$        | _ |
|  | 19       |          |          | ╗        |              |  | $\Box$   |           | $\neg$   | $\dashv$         | ŀ    |          | 69       | _        | <del>-</del> | +        |          | +       | ╁        | +  | $\dashv$ |   |                   | 119        | $\dashv$  | +        | $\dashv$     |              | Н        | -1           |                 | _ |
|  | 20       |          |          |          |              | П  | $\Box$   | $\neg$    | 寸  | 7                | ŀ    |          | 70       | 一        | 十            | +        | +        | +-      | +        | 1 1  | ᅱ        |   |                   | 120        | -         | $\dashv$ | $\dashv$     | $\neg$       | $\vdash$ |              | $\dashv$        | _ |
|  | 21       |          |          |          | _            |  |          | 寸         | ヿ  |                  | ŀ    |          | 71       | 7        | 1            | _        | +        | +       |          | +  |          | 1 | -                 | 121        | +         | $\dashv$ | $\dashv$     |              | $\dashv$ | $\dashv$     | -+              | _ |
|  | 22       | $\Box$   |          |          |              |  |          |           | 寸  | 7                |      |          | 72       | 寸        | $\dashv$     | +        | +        | +       | +        | 1-1  | ᅥ        | · |                   | 122        | $\dashv$  | +        | $\dashv$     | $\dashv$     | $\dashv$ | -+           | -+-             | _ |
|  | 23       |          |          | $\neg$   |              |  |          |           | 1  |                  |      |          | 73       | _        | 7            | +        | 十        | +       | $\dashv$ | +  | $\dashv$ | ŀ |                   | 123        | $\dashv$  | ╁        | $\dashv$     | -1           | $\dashv$ | -            |                 | _ |
|  | 24       |          |          | $\Box$   |              |  | $\neg$   |           |  |                  |      |          | 74       | $\neg$   | 7            | $\top$   | +        | ╅       | _        | 1  | ᅱ        |   |                   | 124        | $\dashv$  | ╅        | ᆉ            | -            | $\dashv$ | -+           | $\dashv$        | - |
|  | 25       |          |          |          |              |  |          |           |  |                  |      |          | 75       |          |              | T        | T        | +       |          | 1 1  | ᅥ        | ŀ |                   | 125        | $\forall$ | $\top$   | 一            | $\dashv$     | $\neg$   | $\dashv$     | $\dashv$        | - |
| Ĺ  | 26       |          |          |          |              |  |          |           |  |                  |      |          | 76       |          | $\neg$       | T        |          | 1       | 7        | $\top$   |          | ŀ |                   | 126        | 1         |          | 寸            |              | $\dashv$ | ~+           | $\dashv$        | - |
|  | 27       |          |          |          |              |  |          |           |  |                  | :::[ |          | 77       |          | T            | $\top$   | $\top$   | ┰       |          | $\Box$   |          | Ì |                   | 127        | $\neg$    | 十        | 7            | ᅥ            | $\dashv$ | $\dashv$     | 十               | - |
| L  | 28       | Ш        | _        |          |              |  |          |           |  |                  | :::[ |          | 78       |          |              |          | Τ        | Т       | T        | 11   |          | • |                   | 128        | T         | 寸        | 7            | T            | $\neg$   | 寸            | 十               | - |
|  | 29       | $\sqcup$ | _        | _        |              |  | $\perp$  |           |  | :                |      |          | 79       |          |              |          |          |         |          |  |          |   |                   | 129        | _         | 十        | T            | ╗            | $\dashv$ | 寸            | 一               | - |
| L  | 30       |          | _        | $\perp$  | $\dashv$     | _  | $\perp$  |           |  | _[               | L    |          | 80       |          |              |          |          |         |          | $\prod$  |          | Γ |                   | 130        |           | 1        | $\exists$    | $\dashv$     | ヿ        | $\neg$       | $\neg$          | _ |
| <u> </u>                                     | 31       | Ш        | _        | _        | _            | _  | _        | $\perp$   | $\perp$  | _                | L    |          | 81       | $\perp$  |              |          |          |         |          |  |          |   |                   | 131        | T         | T        | $\dashv$     |              | T        | $\exists$    | $\neg$          | _ |
| ļ  | 32       |          | _        | $\perp$  | _            | 4  | 4        | 4         | 4  | $\perp$          |      |          | 82       | $\perp$  |              |          |          | L       | $\perp$  |  |          |   |                   | 132        |           |          | $\neg$       |              | $\neg$   |              | $\top$          | _ |
|  | 33       | $\dashv$ | 4        | 4        |              |  | 4        |           | 4  | 4                | L    |          | 83       | $\perp$  |              | 4.       | $\perp$  | $\perp$ |          |  |          |   |                   | 133        |           |          | T            |              |          | $\neg$       | $\neg$          | _ |
| -  | 34       | Н        | -        | -        | $\dashv$     | 4  | -        | -         | 4  | 4                | -    |          | 84       | _        | 4            | _        | 4        | 4       | 4        | $\sqcup$   |          |   |                   | 134        |           |          |              | $\Box$       |          |              |                 |   |
|  | 35       | $\dashv$ | -+       | $\dashv$ | -            | -  | $\dashv$ | $\dashv$  | +  | -                | -    |          | 85       | 4        | 4            | _        | _ _      | 1       |          | Ш  |          |   |                   | 135        | $\Box$    |          |              |              |          |              |                 | _ |
|  | 36       | $\dashv$ |          |          | $\dashv$     | $\dashv$   | $\dashv$ |           | +  |                  | -    | _        | 86       | _        | 4            | $\perp$  | $\perp$  | 4       | 4        | $\sqcup$   | _        | L |                   | 136        |           |          |              |              |          |              |                 |   |
| <u> </u>                                     | 38       | -        |          | +        | -            |  | $\dashv$ | 4         | -  | _                | -    | $-\!\!+$ | 87       |          | _            | _        | _ _      | 1       | 1        | $\perp$  | _        | L |                   | 137        |           | $\perp$  |              |              |          |              | $\perp$         |   |
| <u> </u>                                     | 39       | $\dashv$ | +        | +        | +            | +  | -+       | -         | +  | -                | -    |          | 88       | -        | -            | +        | - -      | 4       | 4        | $\downarrow \downarrow$                          | _        |   |                   | 138        |           | $\perp$  | $\perp$      | $\perp$      | $\dashv$ | $\perp$      |                 |   |
| <del> </del>                                 | 40       | -+       | $\dashv$ | +        | -+           | -  | +        | +         | -  | $\dashv$         | -    |          | 89       | $\dashv$ | +            | - -      | 4-       | ┿       | +        | $\perp \downarrow$                               | _        |   |                   | 139        | ٠,        | $\perp$  |              | _            | $\perp$  | $\perp$      | Ц.              |   |
|  | -        | $\dashv$ | +        | +        | $\dashv$     |  | +        | +         | $\dashv$   | -                | -    |          | 90       | +        | +            | +        | +        | ╀       | +        | <del>                                     </del> | 4        | - | $-\!\!\downarrow$ | 140        | $\perp$   | $\perp$  | 4            | _            | _        | $\dashv$     | $\perp$         |   |
| -  | 41       | $\dashv$ | -+       | +        | +            | -+   | $\dashv$ | +         | +  | -                | ŀ    |          | 91<br>92 |          |              | +        |          | +       | +        | $\vdash$   | $\dashv$ | L |                   | 141        | _ _       |          | $\perp$      | $\perp$      | _        |              | $\perp$         | _ |
|  | 43       | $\dashv$ | +        | $\dashv$ | $\dashv$     | +  | $\dashv$ | +         | +  | - :              | ⊪    |          | 93       | +        | +            | +        | -        | +       | +-       | <del>   </del>                                   | -        | ŀ | -                 | 142        |           | _        | 4            | 4            | 4        | $\dashv$     |                 | _ |
| -  | 44       | $\dashv$ | +        | +        | +            | +  | 十        | +         | +  | - ::             | H    |          | 94       | +        | +            | +        | +        | +       | +        | ╁  | -        | L | $\dashv$          | 143        | $\dashv$  | $\perp$  | 4            | 4            | 4        | $\downarrow$ | 4               | _ |
| <b> </b>                                     | 45       | $\dashv$ | +        | +-       | +            | ╫  |          | +         | +  | -                | ⊪    |          | 95       | +        | +            |          | +-       | +       | +-       | +-+  | -        | ŀ |                   | 144        | +         | $\bot$   | 4            | $\downarrow$ | $\dashv$ | $\perp$      | $\bot$          | _ |
| <u>                                     </u> | 46       | $\dashv$ | +        | +        | +            | +  | +        | +         | +  | $\dashv$         | H    |          | 96       | +        | +            | +        | +        | +-      | +-       | $\vdash$   | -        | - |                   | 145        | -         | $\bot$   | 4            | 4            | $\dashv$ | _            | $\bot$          | _ |
| <u> </u>                                     | 47       | $\dashv$ | +        | +        | +            | -+   | +        | +         | +  | $\dashv$         | ∷⊢   |          | 97       | -+       | +            | +        | ┿        | +       | +        | $\vdash \vdash$                                  |          | ⊪ | $\dashv$          | 146        | +         | -        | $\downarrow$ | +            | 4        | 4            | $\bot$          | _ |
|  | 48       | $\dashv$ | _        | -        | +            | $\dashv$   | +        | +         | +  | $\dashv$         | ∷⊢   |          | 98       | +        | +            | +-       | +-       | ⊢       | +-       | ++   | -        | - | <b></b> ⊦         | 147        | - -       | - -      | +            | 4            | +        | +            | 4               | _ |
|  | 49       | 7        | +        | +        | $^{\dagger}$ | _  | $\dashv$ | +         | +  | - ::             | -    |          | 99       | -        | +            | +        | +        | +       | +        | <del>                                     </del> | -        | ŀ |                   | 148<br>149 |           | +        | +            |              | 4        | _            |                 | _ |
|  | 50       | +        | 1        | 1        | +            | 十  | $\top$   | +         | $\top$   | 1                | -    |          | 100      | +        | +            | +        | +-       | ╁       | +-       | $\vdash$   |          | H |                   | 150        | +         | +        | +            | +            | +        | -            | +               | _ |
|  |          |          |          |          |              |  |          |           |  |                  |      |          |          |          |              |          |          |         |          |  |          |   |                   |            |           |          |              |              |          |              |                 |   |